

0044317.132400

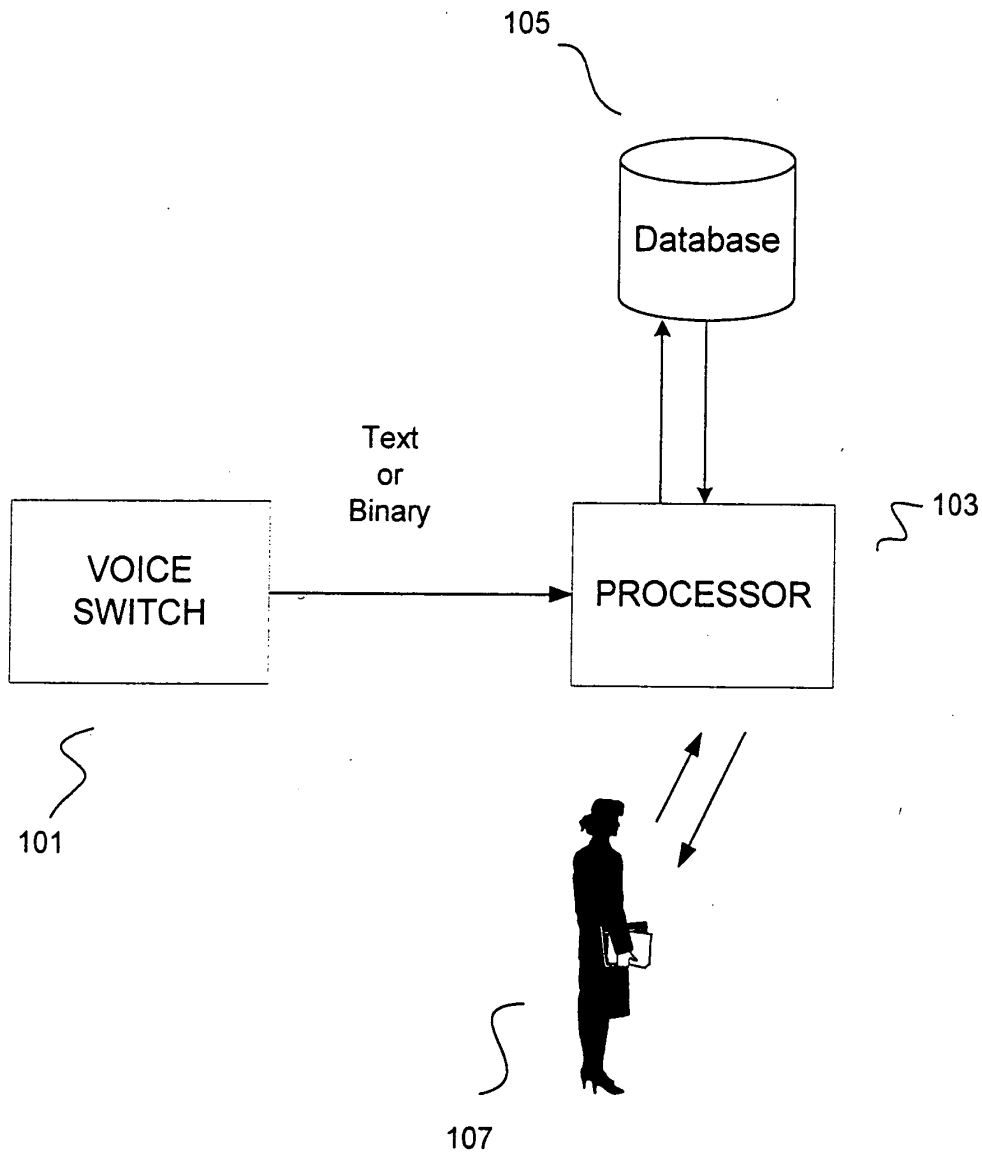


FIGURE 1

Prior Art

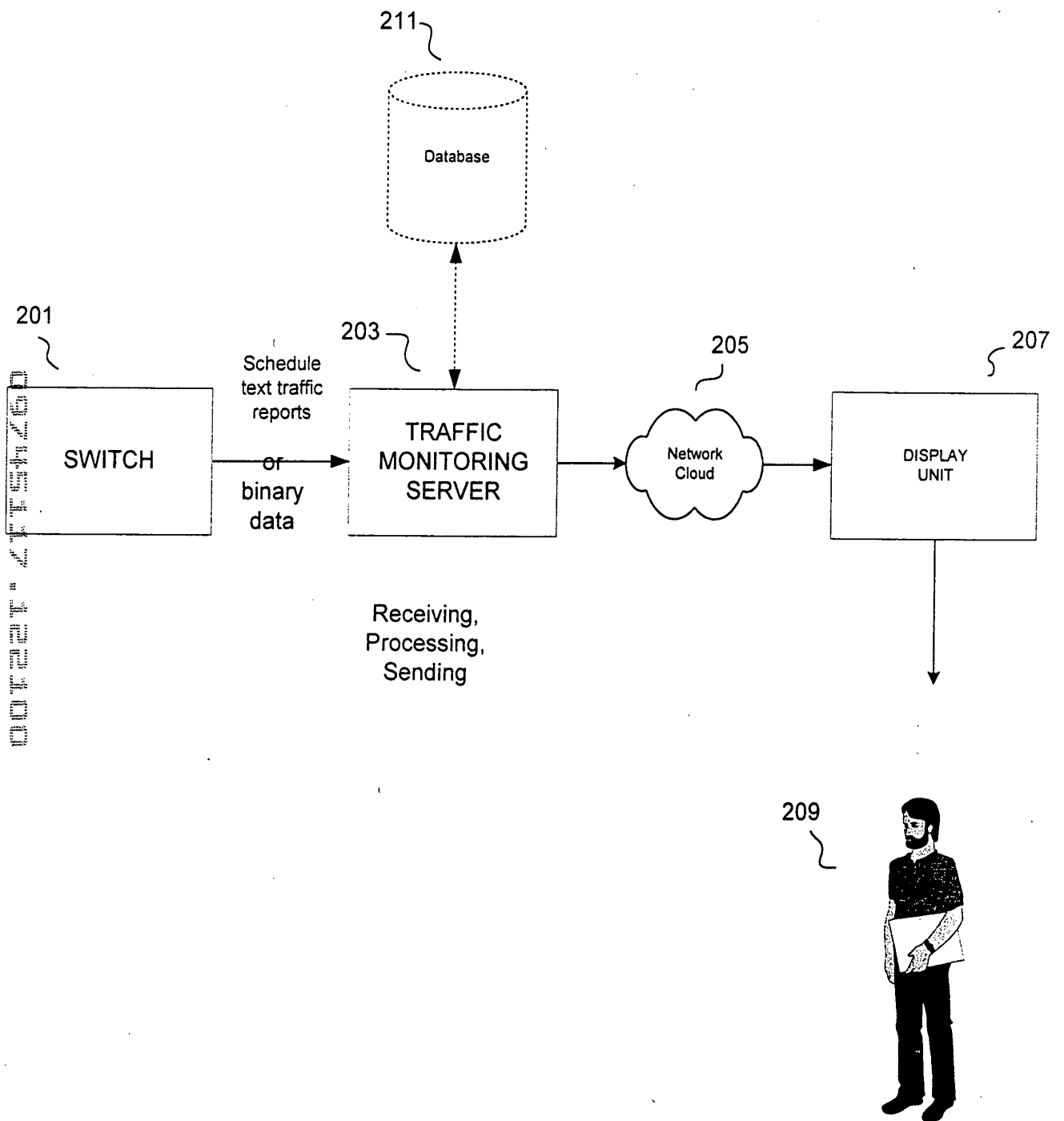


Figure 2

2001221 215460

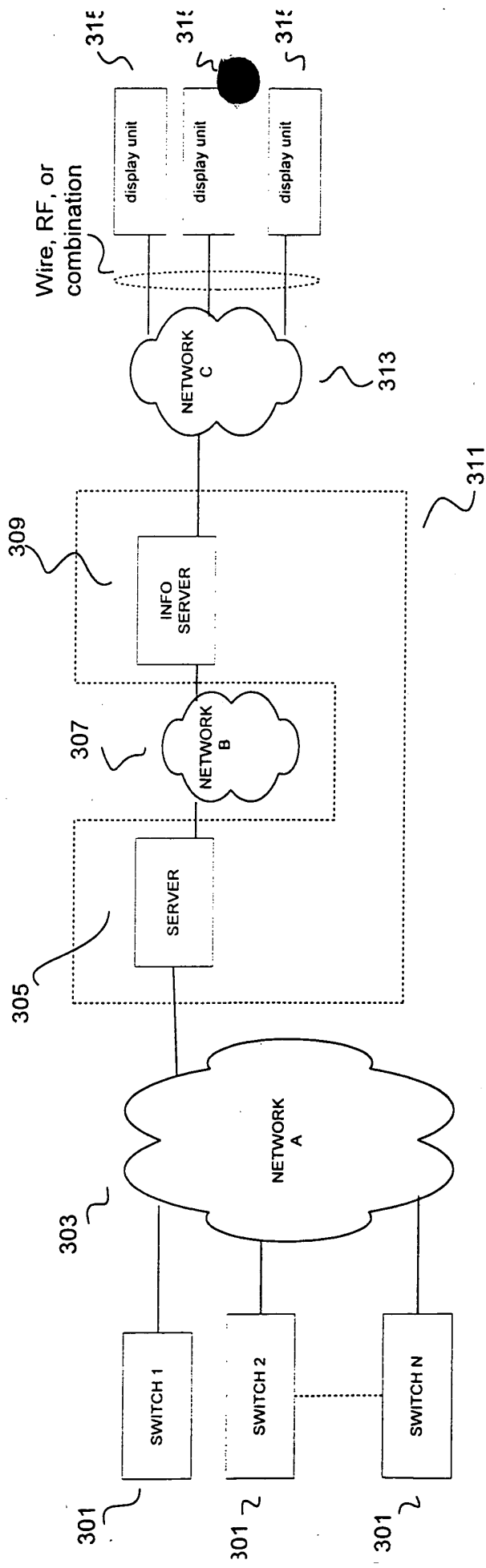


FIGURE 3

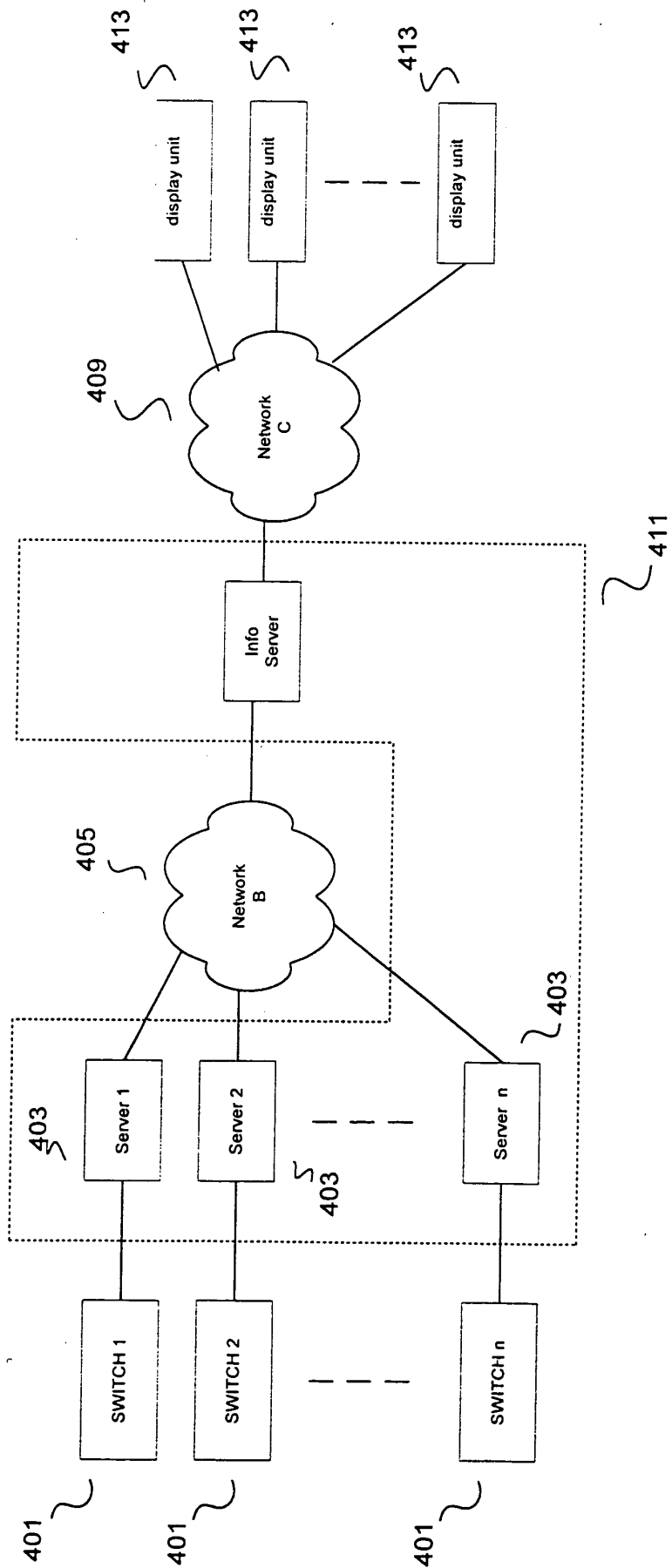


FIGURE 4

FIG. 4

Either plurality of B
Networks or single
Network

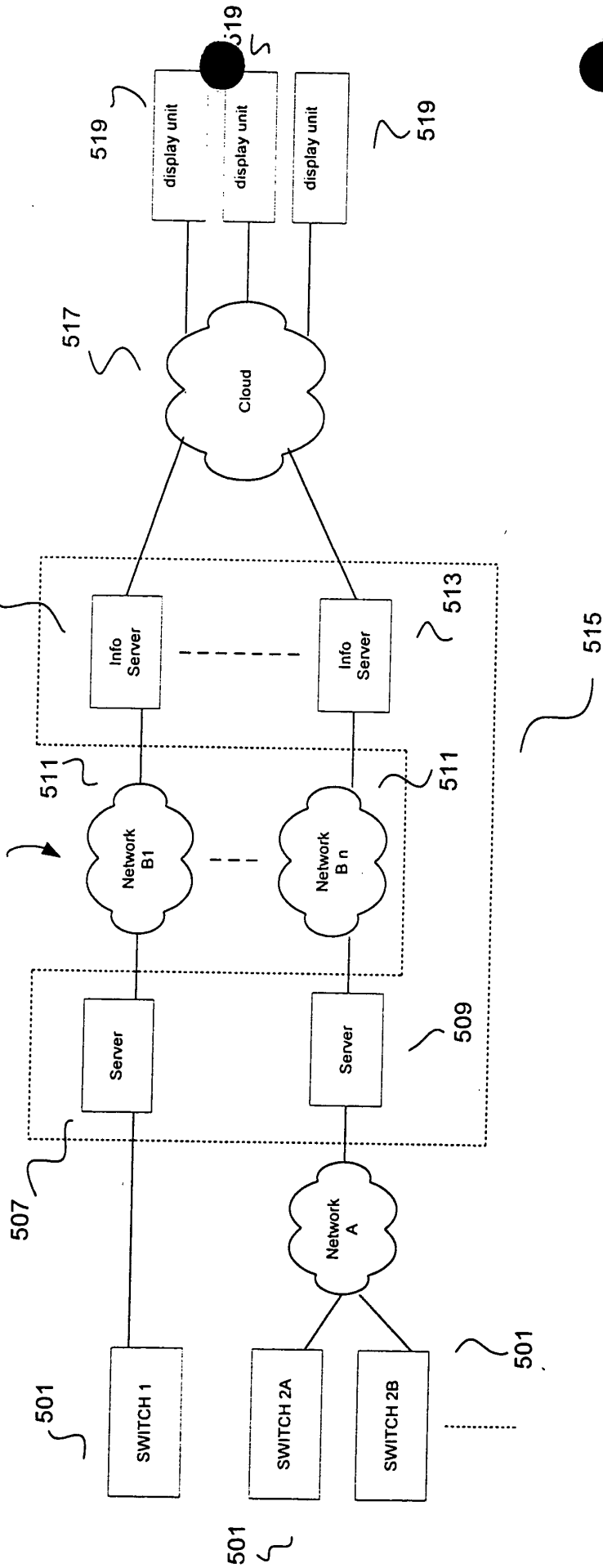


FIGURE 5

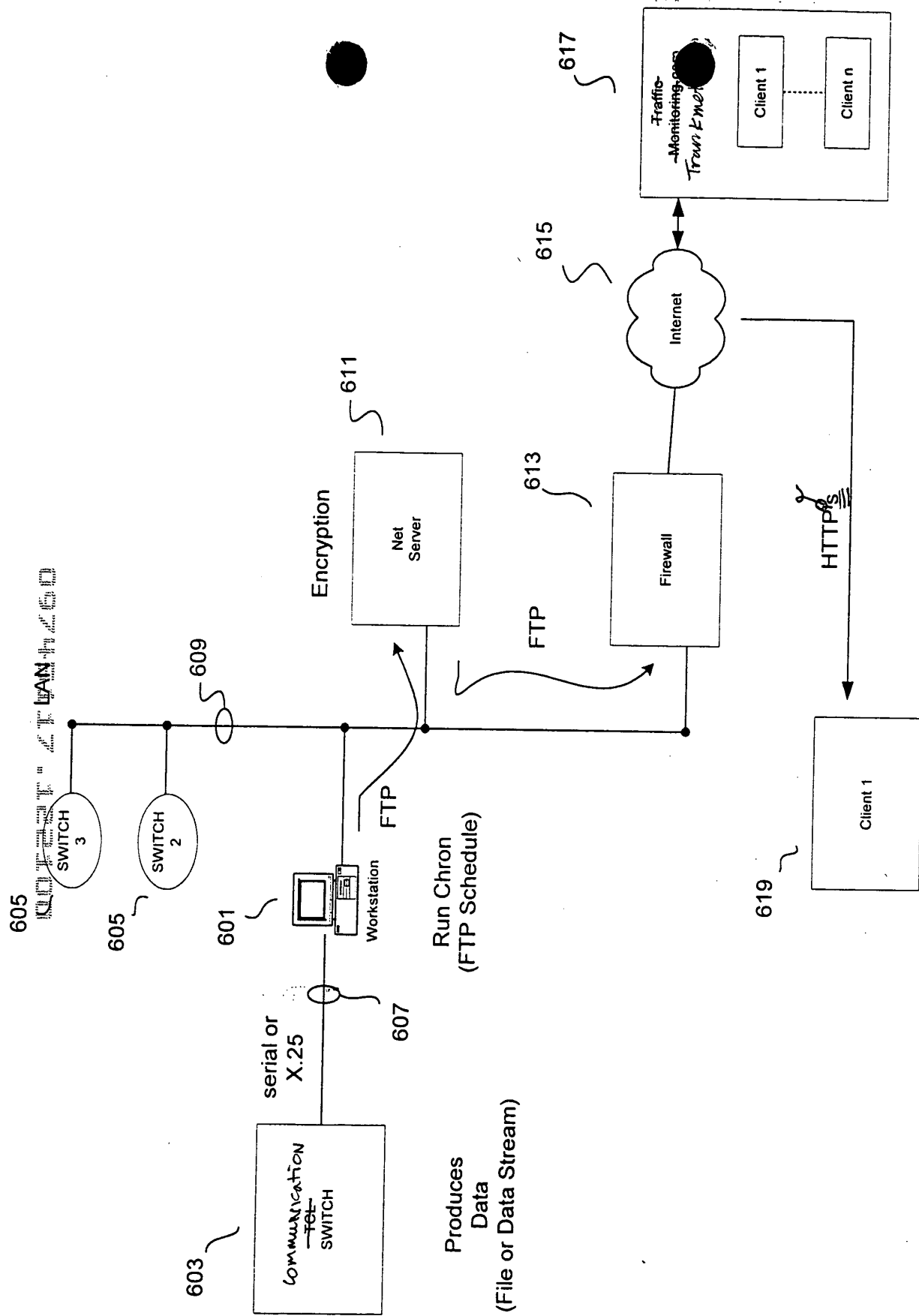


FIGURE 6

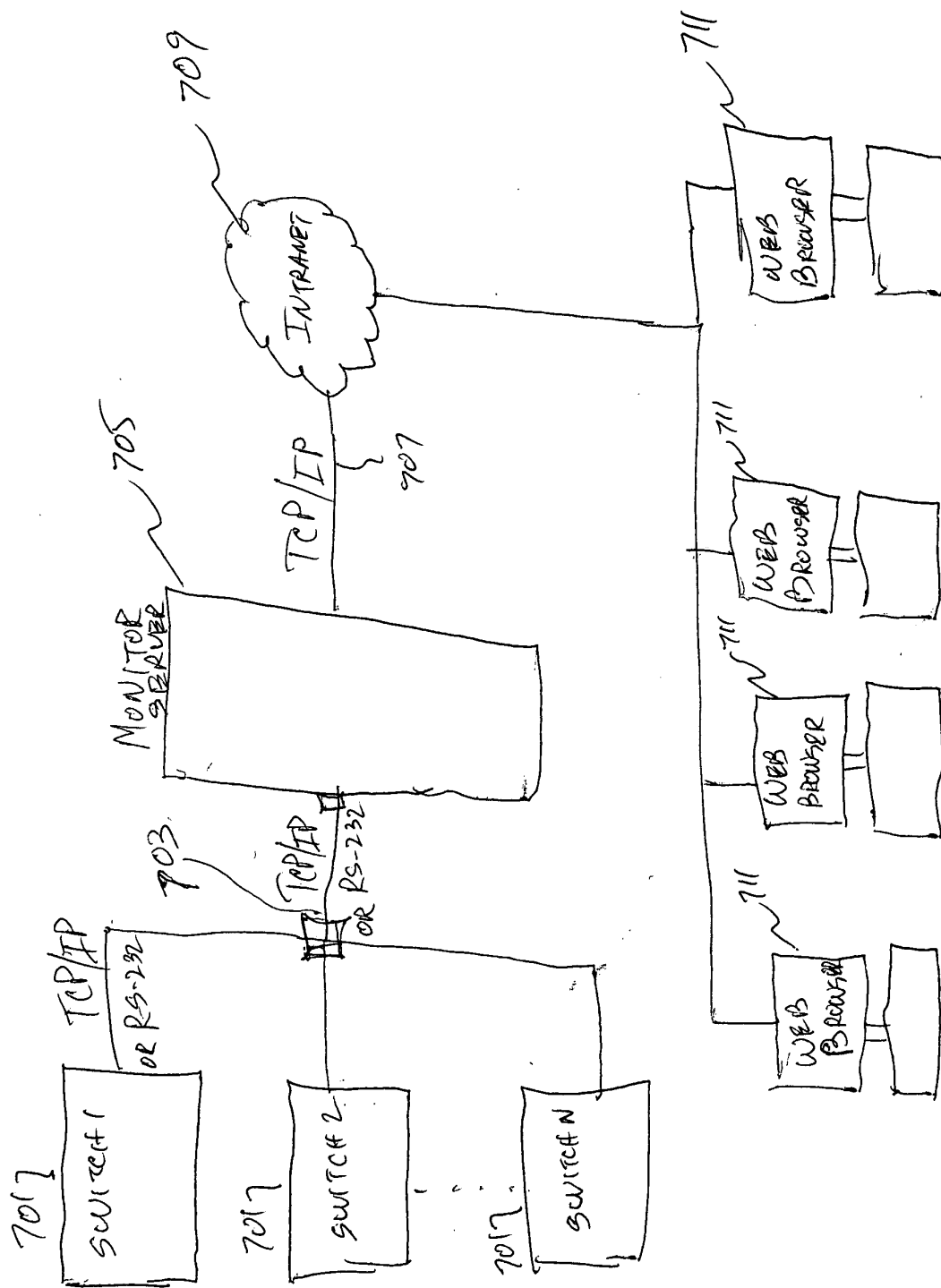


FIGURE 7

00F2227" 27F34260

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Home

Help

Switch Traffic Status Display

Switch ID	Latest Data	# TGs in Overflow	# TGs >90% Util	Switch ID	Latest Data	# TGs in Overflow	# TGs >90% Util
<u>Penryn</u>	9/2/99 09:00	2		<u>Colfax</u>	9/2/99 11:00		
<u>Auburn</u>	9/2/99 10:00	3		<u>Soda Springs</u>	9/2/99 10:00	1	
<u>Yuba City</u>	9/2/99 10:00	2					

FIG. 8

Display:	Basic	Full	Peak Usage	Raw Data	Out Avail
Sort:	Overflow	OOS Trunks	MHT	ASR	TG Sizing

Soda Springs Hourly Traffic Start: 02-Sep-99 09:00 Stop: 02-Sep-99 10:00

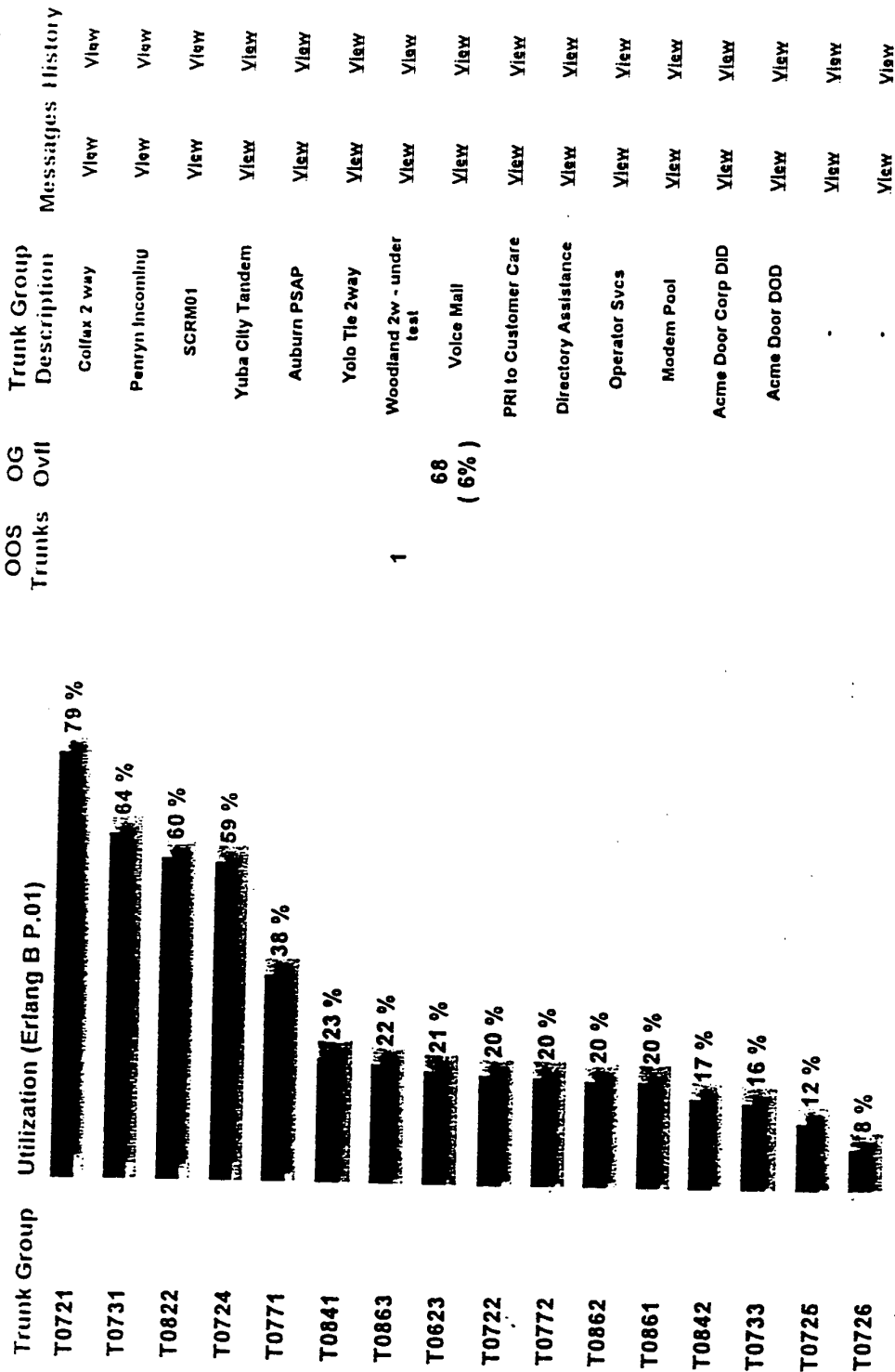


FIG. 9

001234 001234

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Home Help Index

Display:

Basic

Full

OOS Trunks

Peak Usage

Raw Data

Data Avail

Sort:

Overflow

OOS Trunks

MHT

ASR

TG Sizing

Soda Springs Hourly Traffic Start: 02-Sep-99 09:00 Stop: 02-Sep-99 10:00

Trunk Group	Utilization (Erlang B P.01)				OOS		OG		Trunks		MHT		OG		ASR		CCS/Hr		IC		CSV format
	79 %	84 %	60 %	59 %	38 %	23 %	22 %	21 %	20 %	20 %	20 %	17 %	16 %	12 %	8 %	7 %	6 %	5 %	4 %	3 %	
T0721																					
T0731																					
T0822																					
T0724																					
T0771																					
T0841																					
T0863																					
T0823																					
T0722																					
T0772																					
T0862																					
T0861																					
T0842																					
T0733																					
T0726																					
T0726																					

FIG. 10

00T23T" / TFSH260

inveTrix
TrunkMeter™

Home

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Display:

Basic

Full

Peak Usage

Raw Data

Data Avail

Sort:

Overflow

OOS Trunks

MHT

ASR

TG Sizing

Soda Springs 30 day Peak Usage as of: 02-Sep-99 10:00

CSV format

Trunk Group	Peak Utilization (Erlang B P.01)	Peak CCS/Hr	Peak OG Ovfl	Date of Peak	Peak Hour	Peak TrksReqd at Peak	TrksAvail Current
T0721	...	6306	...	9/1/99	16:00	196	192
T0731	...	1034	...	8/31/99	16:00	40	44
T0723	...	60	...	8/26/99	15:00	6	6
T0724	...	180	...	8/31/99	17:00	11	12
T0822	...	3419	...	9/1/99	16:00	112	144
T0771	...	141	...	8/20/99	09:00	10	12
T0722	...	44	...	9/1/99	11:00	5	6
T0841	...	330	...	8/27/99	17:00	17	23
T0725	...	305	...	9/1/99	16:00	16	24
T0861	...	569	...	8/30/99	17:00	25	48
T0862	...	568	...	8/30/99	17:00	25	48
T0842	...	231	...	8/20/99	16:00	13	24
T0733	...	207	...	8/27/99	15:00	12	24
T0772	...	73	...	8/24/99	12:00	7	12
T0623	...	638	6%	8/27/99	16:00	27	72
T0863	...	581	...	8/30/99	20:00	26	71

FIG. 11

FIG. 12

inverfix

TrunkMeter

Display:

Basic

Full

Peak Usage

Raw Data

Date

Home

Help

Index

Sort:

Overflow

OOS Trunks

MHT

ASR

TG:

Soda Springs Raw Traffic Data Start: 02-Sep-99 09:00 Stop: 02-Sep-99 10:00

HOURL 10

SW 01

09/02/99 09:00 09/02/99 10:00

09/02/99 10:00

T0001	17	00009	00000	00000	00000	00000	00000	00000	00033	00000	00000	00000
		00000	00000	0431	00000							
T0002	17	00010	00000	00000	00000	00000	00000	00000	00008	00000	00000	00000
		00000	00000	00141	00000							
T0003	17	00011	00000	00000	00000	00000	00000	00000	00013	00000	00000	00000
		00000	00000	00192	00000							
T0004	17	00009	00000	00000	00000	00000	00000	00000	00003	00000	00000	00000
		00000	00000	00091	00000							
T0005	17	00008	00000	00000	00000	00000	00000	00000	00011	00000	00000	00000
		00000	00000	00133	00000							
T0006	17	00008	00000	00000	00000	00000	00000	00000	00012	00000	00000	00000
		00000	00000	00238	00000							
T0007	17	00006	00000	00000	00000	00000	00000	00000	00007	00000	00000	00000
		00000	00000	00039	00000							
T0008	17	00011	00000	00000	00000	00000	00000	00000	00015	00000	00000	00000
		00019	00000	00234	00000							
T0009	17	00006	00000	00000	00000	00000	00000	00000	00004	00000	00000	00000
		00000	00000	00053	00000							
T0010	17	00006	00000	00000	00000	00000	00000	00000	00009	00000	00000	00000
		00000	00000	00073	00000							
T0011	17	00011	00000	00000	00000	00000	00000	00000	00014	00000	00000	00000
		00000	00000	00131	00000							
T0012	17	00007	00000	00000	00000	00000	00000	00000	00017	00000	00000	00000
		00000	00000	00214	00000							
T0013	17	00007	00000	00000	00000	00000	00000	00000	00013	00000	00000	00000
		00000	00000	00167	00000							
T0014	17	00006	00000	00000	00000	00000	00000	00000	00010	00000	00000	00000
		00000	00000	00120	00000							
T0015	17	00006	00000	00000	00000	00000	00000	00000	00009	00000	00000	00000
		00000	00000	00064	00000							
T0016	17	00007	00000	00000	00000	00000	00000	00000	00021	00000	00000	00000
		00000	00000	00286	00000							
T0018	17	00009	00000	00000	00000	00000	00000	00000	00015	00000	00000	00000
		00000	00000	00247	00000							
T0019	17	00006	00000	00000	00000	00000	00000	00000	00004	00000	00000	00000
		00000	00000	00059	00000							
T0020	17	00006	00000	00000	00000	00000	00000	00000	00015	00000	00000	00000
		00000	00000	00128	00000							
T0021	17	00010	00000	00000	00000	00000	00000	00000	00047	00000	00000	00000
		00000	00000	00495	00000							
T0022	17	00013	00000	00000	00000	00000	00000	00000	00053	00000	00000	00000
		00000	00000	00772	00000							
T0023	17	00006	00000	00000	00000	00000	00000	00000	00007	00000	00000	00000
		00000	00000	00101	00000							
T0024	17	00006	00000	00000	00000	00000	00000	00000	00006	00000	00000	00000
		00000	00000	00111	00000							
T0025	17	00008	00000	00000	00000	00000	00000	00000	00021	00000	00000	00000
		00000	00000	00228	00000							
T0026	17	00007	00000	00000	00000	00000	00000	00000	00007	00000	00000	00000
		00000	00000	00033	00000							

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TrunkMeter™

Display:

Basic

Full

Peak Usage

Raw Data

Date

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Sort:

Overflow

OOS Trunks

MHT

ASR

TG

Soda Springs 30 Day Data Availability

Data Available

L Latest Data

nd No Data

Date	Hour	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
10-Aug-99																									
11-Aug-99			nd	nd	nd	nd	nd																		
12-Aug-99																			nd						
13-Aug-99									nd	nd				nd				nd							
14-Aug-99											nd														
15-Aug-99																						nd	nd	nd	nd
16-Aug-99		nd	nd	nd	nd	nd	nd	nd	nd										nd						
17-Aug-99				nd	nd																			nd	nd
18-Aug-99			nd						nd			nd													
19-Aug-99										nd		nd	nd					nd	nd	nd	nd	nd	nd	nd	nd
20-Aug-99		nd	nd	nd	nd	nd	nd	nd																	
21-Aug-99																									
22-Aug-99																									
23-Aug-99										nd	nd					nd	nd								
24-Aug-99															nd										
25-Aug-99																									
26-Aug-99															nd	nd									
27-Aug-99																							nd	nd	nd
28-Aug-99		nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
29-Aug-99		nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
30-Aug-99		nd	nd	nd	nd	nd	nd	nd	nd			nd											nd	nd	nd
31-Aug-99		nd	nd	nd	nd	nd																			
01-Sep-99																									
02-Sep-99																									

007447.133400

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FIG. 13

001221 2754250

Display: Basic Full Peak Usage Raw Data Data Avail
Sort: Overflow OOS Trunks MHT ASR TG Sizing

Soda Springs Hourly Traffic (Overflow Sorted) Start: 02-Sep-99 10:00 Stop: 02-Sep-99 11:00

Trunk Group	Utilization (Erlang B P.01)	OG Ovfl 81 (8%)	OOS Trunks	Current TrksReqd	Current TrksAvail	MHT (sec)	OG ASR
T0823	23 %			22	72	46	77 %
T0721	86 %			167	192	118	84 %
T0724	78 %			11	12	83	*
T0822	66 %			100	144	135	80 %
T0731	63 %			31	44	98	87 %
T0771	41 %			7	12	187	91 %
T0723	35 %			4	6	120	*
T0862	31 %			20	48	82	-
T0861	31 %			20	48	84	91 %
T0841	30 %			11	24	52	99 %
T0772	25 %			6	12	137	-
T0863	22 %			21	72	118	77 %
T0842	21 %			9	24	56	-
T0733	17 %			8	24	59	*
T0725	17 %			8	24	86	-
T0726	9 %			5	24	47	-

FIG. 14

00T33T 4T34260

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Home Help Index

Display:

Basic

Full

Peak Usage

Raw Data

Data Avail

Sort:

Overflow

OOS Trunks

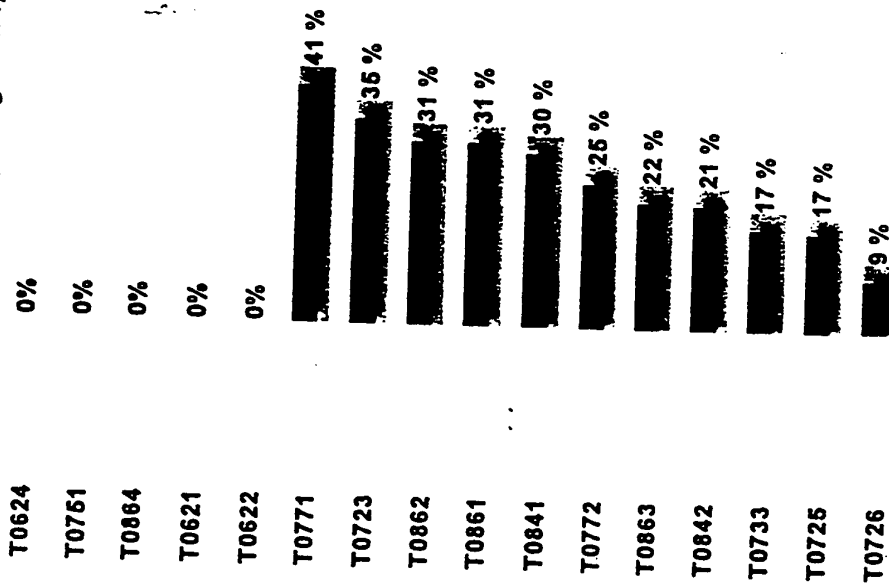
MHT

ASR

TG Sizing

Soda Springs Hourly Traffic(OOS Trunks Sorted) Start: 02-Sep-99 10:00 Stop: 02-Sep-99 11:00

Trunk Group Utilization (Erlang B P.01)



OOS Trunks	OG Ovfl	Current TrksReqd	Current TrksAvail	MHT (sec)	OG ASR
96	0	0	0	-	-
24	0	0	0	-	-
24	0	0	0	-	-
1	0	23	23	-	-
1	0	23	23	-	-
7	12	12	187	91 %	
4	6	6	120	*	
20	48	48	82	-	
20	48	48	84	91 %	
11	24	24	52	99 %	
6	12	12	137	-	
21	72	72	118	77 %	
9	24	24	56	-	
8	24	24	59	*	
8	24	24	86	-	
5	24	24	47	-	

FIG. 15

00F23T 2TTH260

Soda Springs Hourly Traffic (MHT Sorted) Start: 02-Sep-99 10:00 Stop: 02-Sep-99 11:00

Trunk Group	Utilization (Erlang B P.01)	MHT (sec)	OOS Trunks	OG Ovfl	Current TrksReqd	Current TrksAvail	OG ASR
T0732	0.9%	9			2	24	-
T0823	23%	46		61 (6%)	22	72	77%
T0726	9%	47			6	24	-
T0722	7%	50			2	6	-
T0841	30%	52			11	24	99%
T0842	21%	56			9	24	-
T0733	17%	59			8	24	-
T0862	31%	82			20	48	-
T0724	78%	83			11	12	-
T0861	31%	84			20	48	91%
T0725	17%	86			8	24	-
T0731	63%	98			31	44	87%
T0700	0.4%	100			2	24	100%
T0721	86%	118			167	192	84%
T0863	22%	118			21	72	77%
T0723	35%	120			4	6	-

FIG. 1b

DOT22T" / FT54260

Display: Basic Full Peak Usage Raw Data Data Avail
Sort: Overflow OOS Trunks MHT ASR TO Sizing

Soda Springs Hourly Traffic (ASR Sorted) Start: 02-Sep-99 10:00 Stop: 02-Sep-99 11:00

Trunk Group	Utilization (Erlang B P.01)	OG ASR	OOS Trunks	OG Ovfl (6%)	Trunks Reqd	Trunks Avail	MHT (sec)
T0623	23 %	77 %		61	22	72	46
T0863	22 %	77 %			21	72	118
T0822	66 %	80 %			100	144	135
T0721	86 %	84 %			167	192	118
T0731	63 %	87 %			31	44	98
T0771	41 %	91 %			7	12	187
T0861	31 %	91 %			20	48	84
T0841	30 %	99 %			11	24	62
T0700	0.4%	100 %			2	24	100
T0862	31 %	-			20	48	82
T0772	25 %	-			6	12	137
T0842	21 %	-			9	24	66
T0725	17 %	-			8	24	86
T0726	9 %	-			5	24	47
T0722	7 %	-			2	6	50
T0732	0.9%	-			2	24	9

FIG17

DOTNET 2154250

Soda Springs Trunk Group Sizing Analysis for Peak Usage as of: 02-Sep-99 11:00

Trunk Group	Peak Utilization (Erlang B P.01)	Over/Under Trunking	Peak TrksReqd	Current TrksAvail	Peak OG Ovfl
Trunk Groups without enough capacity					
T0721		- 4	198	192	
Trunk Groups with sufficient or extra capacity					
T0883	28 %	+ 46	26	72	6%
T0623	31 %	+ 45	27	72	
T0822	75 %	+ 32	112	144	
T0224	0%	+ 24	0	24	
T0843	0%	+ 24	0	24	
T0225	0%	+ 24	0	24	
T0861	44 %	+ 24	0	24	
T0821	0%	+ 23	25	48	
T0622	0%	+ 23	0	23	
T0862	44 %	+ 23	0	23	
T0702	0.7%	+ 23	25	48	
T0732	7 %	+ 22	2	24	
T0700	8 %	+ 19	5	24	
T0726	26 %	+ 19	5	24	
		+ 14	10	24	

FIG.18